Application No.: 10/550,139 Docket No.: VALEA 3.3-025

IN THE SPECIFICATION

Please insert the following on page 1 after the Title of the Invention:

CROSS-REFERENCE TO RELATED APPLICATIONS

The present application is a national stage application under 35 U.S.C. § 371 of International Application No. PCT/SE2004/000432, filed March 22, 2004, which claims priority from Swedish Application No. 0300808-3, filed March 21, 2003, the disclosures of which are hereby incorporated by reference herein.

BACKGROUND OF THE INVENTION

Please amend the heading at page 2, line 12 as follows:

SUMMARY OF THE INVENTIONShort description of the invention

Please amend the paragraph at page 3, lines 18-25 as follows:

The invention also relates to a lens, suitable for x-rays, comprising a body with low-Z material having a first end adapted to receive rays emitted from a ray source and a second end from which the rays received at the first end are refracted. The lens comprises tow two portions, each portion having columns of stacked substantially identical prisms, each portion being arranged in an angle angel—relative to each other. The prisms are produced by removal of material corresponding to a multiple of a phase-shift length (L_{2n}) of a multiple of 2n. The columns are displaced relative to each other. In one embodiment, said the columns are rotated relative each other. The columns may be arranged in series.

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Please amend the heading at page 4, line 16 as follows:

BRIEF DESCRIPTION OF THE DRAWINGSShort description of the drawings

Please insert the following heading before page 5, line 8:

DETAILED DESCRIPTION

Please amend the paragraph at page 6, lines 4-8 as follows:

Following definitions and geometrical relations are valid concerning the element 20 in FIG. 2:

$$\tan \Theta = 2h/b$$
, $y_a = M \cdot h$, $L = N \cdot b$, $\alpha = y_g/L$ (3)

wherein Θ is the <u>angel angle</u> between a the triangle shaped prism sides, h is the height of a triangle shaped prism, b is the base width of a triangle shaped prism, y_g is the inclination height of the column, y_a is the column height, M is the number of the prisms in height direction, L is the length of the column, N is the number of the prisms in the length direction, and α is the inclination angle of the columns.

Please amend the paragraph at page 12, lines 3-5 as follows:

Transmission and averaged transmission as a function of physical lens aperture described by the <u>dimensionless</u> dimensionless—parameter q is illustrated in FIG. 7. This pertains only to the special case y_{-1} .

Please amend the paragraph at page 12, lines 20-25 as follows:

The lens according to the preferred embodiment of the invention can be used in an x-ray apparatus 86, as illustrated

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very schematically in FIG. 8, comprising an x-ray source 88, the lens 80 (combined refractive elements) and a detector assembly 87. Of course, the apparatus can comprise an array of refractive elements or lenses and the lenses can be arranged in a different position in the ray path. The detector assembly can be any of a film, a semiconductor detector, gaseous detector, etc.